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ANNEXES 1 to 2

ANNEXES

to the proposal for a

Regulation of the European Parliament and of the Council

**on the monitoring and reporting of CO₂ emissions from and fuel consumption of new
heavy-duty vehicles**

{SWD(2017) 188 final}

{SWD(2017) 189 final}

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Annex I

Data to be monitored and reported

PART A: DATA TO BE MONITORED AND REPORTED BY MEMBER STATES:

- (a) vehicle identification numbers of all new vehicles as referred to in Article 2(a) and (b) that are registered in the Member State territory;
- (b) manufacturer name;
- (c) make (trade name of manufacturer);
- (d) the code for the bodywork as specified in entry 38 of the certificate of conformity, where available;
- (e) in the case of the vehicles referred to in Article 2(a), the information on the powerplant specified in entries 23, 23.1 and 26 of the certificate of conformity.

PART B: DATA TO BE MONITORED AND REPORTED BY MANUFACTURERS OF HEAVY-DUTY VEHICLES:

No	Monitoring parameters	Source Appendix 1 to Annex I to Regulation [.../...]	Description
1	vehicle identification number (VIN)	1.1.1	Vehicle and component identification
2	engine certification number	1.2.1	
3	CdxA certification number (if applicable)	1.8.2	
4	transmission certification number	1.3.2	
5	axle certification number	1.7.2	
6	tyre certification number, axle 1	1.9.2	
7	tyre certification number, axle 2	1.9.6	
8	tyre certification number, axle 3	1.9.10	
9	tyre certification number, axle 4	1.9.14	

10	vehicle category	1.1.2	Vehicle classification
11	axle configuration	1.1.3	
12	maximum gross vehicle weight	1.1.4	
13	vehicle group	1.1.5	
14	manufacturer name	1.1.6	Vehicle and chassis specification
15	make (trade name of manufacturer)	1.1.7	
16	corrected actual curb mass	1.1.8	
17	engine rated power	1.2.2.	Main engine specifications
18	engine idling speed	1.2.3	
19	engine rated speed	1.2.4	
20	engine capacity	1.2.5	
21	engine reference fuel type	1.2.6	
22	Certification option used for generation of CdxA (default value or measurement)	1.8.1	Aerodynamics
23	CdxA value	1.8.3	
24	name and address of manufacturer	-	Main transmission specifications
25	make (trade name of manufacturer)	-	
26	certification option used for the generation of the Vehicle Energy Consumption calculation Tool loss map (standard values/method 1/method 2)	1.3.1	
27	transmission type	1.3.3	
28	number of gears	1.3.4	
29	transmission ratio final gear	1.3.5	
30	retarder (yes/no)	1.3.6	
31	power take off (yes/no)	1.3.7	
32	name and address of manufacturer	-	Main axle specifications
33	make (trade name of manufacturer)	-	
34	certification option used for the generation of the Vehicle Energy Consumption calculation Tool loss map (standard values/measurement)	1.7.1	
35	axle type	1.7.3	
36	axle ratio	1.7.4	
37	Certification option used for the generation of the Vehicle Energy Consumption calculation Tool loss map (standard values/ measurement)	1.6.1	Angle drive specifications

38	angle drive ratio	1.6.2	
39	name and address of manufacturer	-	Main tyre specifications
40	make (trade name of manufacturer)	-	
41	tyre dimension, axle 1	1.9.1	
42	specific rolling resistance coefficient (RRC) of all tyres on axle 1 (left/right)	1.9.3	
43	tyre dimension, axle 2	1.9.4	
44	twin axle (yes/no), axle 2	1.9.5	
45	RRC of all tyres on axle 2 (left/right)	1.9.7	
46	tyre dimension, axle 3	1.9.8	
47	twin axle (yes/no), axle 3	1.9.9	
48	RRC of all tyres on axle 3 (left/right)	1.9.11	
49	tyre dimension, axle 4	1.9.12	
50	twin axle (yes/no), axle 4	1.9.13	
51	RRC, axle 4 (left/right)	1.9.15	
52	engine cooling fan technology (yes/no – if yes indicate technology type)	1.10.1	Main auxiliary specifications
53	steering pump technology (yes/no – if yes indicate technology type)	1.10.2	
54	electric system technology (yes/no – if yes indicate technology type)	1.10.3	
55	pneumatic system technology (yes/no – if yes indicate technology type)	1.10.4	
56	mission profile (long haul, regional, urban, construction)	2.1.1	Simulation parameters (for each mission profile/load/fuel combination)
57	load (as defined in the Vehicle Energy Consumption calculation Tool)	2.1.2	
58	Total vehicle mass in simulation	2.1.4	
59	average speed	2.2.1	Vehicle driving performance (for each mission profile/load/fuel combination)
60	minimum instantaneous speed	2.2.2	
61	maximum instantaneous speed	2.2.3	
62	maximum deceleration	2.2.4	
63	maximum acceleration	2.2.5	
64	full-load percentage on driving time	2.2.6	
65	total number of gear shifts	2.2.7	

66	total driven distance	2.2.8	
67	CO ₂ emissions (expressed in g/km, g/t-km, g/p-km, g/m ³ -km)	2.3.13-2.3.16	CO ₂ emissions and fuel consumption (for each mission profile/load/fuel combination)
68	fuel consumption (expressed in l/100km, l/t-km, l/p-km, l/m ³ -km, MJ/km, MJ/t-km, MJ/p-km, MJ/m ³ -km)	2.3.1-2.3.12	
69	Vehicle Energy Consumption calculation Tool version	3.1.1	Software and user information
70	Date and time of the Vehicle Energy Consumption calculation Tool simulation	3.1.2	
71	Vehicle Energy Consumption calculation Tool user/license reference	3.1.3	
72	Cryptographic hash	3.1.4	
73	Advanced CO ₂ reducing technologies	-	Vehicle CO ₂ reducing technologies

ANNEX II

Data reporting and management

1. REPORTING BY MEMBER STATES

- 1.1 Starting from 1 January 2019, Member States shall monitor the data specified in Part A of Annex I on a calendar year basis.
- 1.2 The data shall be transmitted in accordance with Article 4 by the contact point of the competent authority via electronic data transfer to the Central Data Repository managed by the EEA.

The contact point shall notify the Commission and the EEA when the data is transmitted by email to the following addresses:

[\[EC-CO2-HDV-IMPLEMENTATION@ec.europa.eu\]](mailto:[EC-CO2-HDV-IMPLEMENTATION@ec.europa.eu]) and
HDV-monitoring@eea.europa.eu.

2. REPORTING BY MANUFACTURERS

- 2.1 Manufacturers shall notify the Commission without delay and not later than by [31 December 2018] of the following information:
 - (a) The manufacturer name indicated in the certificate of conformity or individual approval certificate;
 - (b) The World Manufacturer Identifier code (WMI code) as defined in Commission Regulation (EU) No 19/2011¹ to be used in the vehicle identification numbers of new heavy-duty vehicles to be placed on the market;
 - (c) The contact point responsible for uploading the data to the Business Data Repository of the EEA.

They shall notify the Commission without delay of any changes to that information.

The notifications shall be sent to the addresses referred to in point 1.2.
- 2.2 New manufacturers entering the market shall inform the Commission without delay of the information referred to in point 2.1.
- 2.3 Starting from [1 January 2019], and for each subsequent calendar year, each manufacturer shall record for each new heavy-duty vehicle produced the data specified in Part B of Annex I.
- 2.4 The data referred to in point 2.3 shall be transmitted in accordance with Article 5(1) by the contact point of the manufacturer via electronic transfer to the Business Data Repository managed by the EEA.

¹ Commission Regulation (EU) No 19/2011 of 11 January 2011 concerning type-approval requirements for the manufacturer's statutory plate and for the vehicle identification number of motor vehicles and their trailers and implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefor (OJ L 8, 12.1.2011, p.1).

The contact point shall notify the Commission and the EEA when the data is transmitted by email to the functional mailboxes specified in point 1.2 of this Annex.

3. DATA PROCESSING

- 3.1 The EEA shall process the data transmitted in accordance with points 1.2 and 2.4 and shall record the processed data in the Central Register for data on heavy-duty vehicles.
- 3.2 The data relating to vehicles registered in the preceding calendar year and recorded in the Register shall be made public no later than by [31 October] each year, starting from [2020], with the exception of the data entries specified in Article 6(1).
- 3.3 Where a competent authority or manufacturers identify errors in the data submitted, they shall without delay notify those to the Commission and the EEA by submitting an error notification report to the Central Data Repository or the Business Data Repository and by email sent to the functional mailboxes referred to in point 1.2.
- 3.4 The Commission shall with the support of the EEA verify the notified errors and, where appropriate, correct the data in the Register.
- 3.5 The Commission, with the support of the EEA, shall make available electronic formats for the data transmissions referred to in points 1.2 and 2.4 in due time before the transmission deadlines.